GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 16, 2005, 11:19:08 ; Search time 4 Seconds
(without alignments)
4.497 Million cell updates/sec

Title: us-10-036-342-56
Perfect score: 2242
Sequence: 1 gaatgaatacctccgaagcc.....aaaaaaaaaaaaaaaaaaa 2242

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5

Searched: 3 seqs, 4012 residues

Total number of hits satisfying chosen parameters: 6

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : 56dba:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | | Score | % Query Match | Length | DB | ID | Description |
|---|---|---|---|---|---|---|---|
| 1 | | 2137.1 | 95.3 | 2152 | 1 | AAZ65270 | Human secreted pro |
| 2 | c | 126.6 | 5.6 | 127 | 1 | AAX10638 | Human biallelic po |
| 3 | | 62.4 | 2.8 | 1733 | 1 | AAV81394 | Human tumour antig |
| 4 | c | 23.8 | 1.1 | 2152 | 1 | AAZ65270 | Human secreted pro |
| 5 | c | 21.4 | 1.0 | 1733 | 1 | AAV81394 | Human tumour antig |
| 6 | | 14.6 | 0.7 | 127 | 1 | AAX10638 | Human biallelic po |

ALIGNMENTS

RESULT 1
AAZ65270
ID AAZ65270 standard; DNA; 2152 BP.
XX
AC AAZ65270;
XX
DT 23-MAR-2000 (first entry)
XX
DE Human secreted protein gene 21.
XX
KW Human; secreted protein; cancer; tumour; developmental abnormality;
KW foetal deficiency; blood disorder; immune system disorder; inflammation;
KW autoimmune disease; allergy; Alzheimer's disease; cognitive disorder;
KW schizophrenia; arthritis; asthma; psoriasis; sepsis; skin disorder;
KW atherosclerosis; diabetes; cardiovascular disorder; kidney disorder;
KW digestive disorder; endocrine disorder; infection; AIDS; leukaemia;
KW therapy; chromosome 18q22-23; ds.
XX
OS Homo sapiens.
XX
PN WO9958660-A1.
XX
PD 18-NOV-1999.
XX
PF 06-MAY-1999; 99WO-US009847.
XX
PR 12-MAY-1998; 98US-0085093P.
PR 12-MAY-1998; 98US-0085094P.
PR 12-MAY-1998; 98US-0085105P.
PR 12-MAY-1998; 98US-0085180P.
PR 18-MAY-1998; 98US-0085906P.
PR 18-MAY-1998; 98US-0085920P.
PR 18-MAY-1998; 98US-0085921P.
PR 18-MAY-1998; 98US-0085922P.
PR 18-MAY-1998; 98US-0085923P.
PR 18-MAY-1998; 98US-0085924P.
PR 18-MAY-1998; 98US-0085925P.
PR 18-MAY-1998; 98US-0085927P.
PR 18-MAY-1998; 98US-0085928P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Ruben SM, Florence K, Ni J, Rosen CA, Carter KC, Moore PA;
PI ~~Olsen HS~~, Shi Y, Young PE, Wei F, Brewer LA, Soppet DR, Lafleur DW;
PI Endress GA, Ebner R;
XX
DR WPI; 2000-062296/05.
DR P-PSDB; AAY76144.
XX
PT New isolated human genes and the secreted polypeptides they encode,
PT useful for diagnosis and treatment of e.g. cancers, neurological
PT disorders, immune diseases, inflammation or blood disorders.
XX
PS Claim 1; Page 309; 475pp; English.
XX
CC AAZ65250 to AAZ65350 represent 97 isolated human secreted protein genes.
CC This sequence was found to be present on human chromosome 18q22-23.
CC AAY76124 to AAY76223 represent the secreted proteins encoded by the 97
CC human genes. The genes and their corresponding secreted polypeptides are
CC useful for preventing, treating or ameliorating medical conditions, e.g.
CC by protein or gene therapy. Also pathological conditions can be diagnosed
CC by determining the amount of the new polypeptides in a sample or by
CC determining the presence of mutations in the new genes. Specific uses are
CC described for each of the 97 genes, based on which tissues they are most
CC highly expressed in, and include developing products for the diagnosis or
CC treatment of cancer, tumours, developmental abnormalities and foetal
CC deficiencies, blood disorders, diseases of the immune system, autoimmune
CC diseases, inflammation, allergies, Alzheimer's and cognitive disorders,
CC schizophrenia, arthritis, asthma, psoriasis, sepsis, skin disorders,
CC atherosclerosis, diabetes, cardiovascular disorders, kidney disorders,
CC digestive/endocrine disorders, infections and AIDS. The polypeptides are
CC also useful for identifying their binding partners. The sequences shown
CC in AAY76224 to AAY76424 represent fragments of the secreted proteins
XX
SQ Sequence 2152 BP; 541 A; 526 C; 531 G; 553 T; 0 U; 1 Other;

Query Match 95.3%; Score 2137.1; DB 1; Length 2152;
Best Local Similarity 99.8%; Pred. No. 4e-11;
Matches 2148; Conservative 1; Mismatches 0; Indels 3; Gaps 1;

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Qy         19 CCGCTTTGTTCTCCAGATGTGAATAGCTCCACTATACCAGCCTCGTCTTCCTTCCGGGGG 78
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 CCGCTTTGTTCTCCAGATGTGAATAGCTCCACTATACCAGCCTCGTCTTCCTTCCGGGGG 60

Qy         79 ACAACGTGGGTCAGGGCACAGAGAGATATTTAATGTCACCCTCTTGGGGCTTTCATGGGA 138
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 ACAACGTGGGTCAGGGCACAGAGAGATATTTAATGTCACCCTCTTGGGGCTTTCATGGGA 120

Qy        139 CTCCCTCTGCCACATTTTTTGGAGGTTGGGAAAGTTGCTAGAGGCTTCAGAACTCCAGCC 198
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 CTCCCTCTGCCACATTTTTTGGAGGTTGGGAAAGTTGCTAGAGGCTTCAGAACTCCAGCC 180

Qy        199 TAATGGATCCCAAACTCGGGAGAATGGCTGCGTCCCTGCTGGCTG---TGCTGCTGCTGC 255
               ||||||||||||||||||||||||||||||||||||||||||||   ||||||||||||
Db        181 TAATGGATCCCAAACTCGGGAGAATGGCTGCGTCCCTGCTGGCTGTGCTGCTGCTGCTGC 240
```

```
Qy       256 TGCTGGAGCGCGGCATGTTCTCCTCACCCTCCCCGCCCCCGGCGCTGTTAGAGAAAGTCT 315
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       241 TGCTGGAGCGCGGCATGTTCTCCTCACCCTCCCCGCCCCCGGCGCTGTTAGAGAAAGTCT 300

Qy       316 TCCAGTACATTGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGGAGTGGGTGGCCA 375
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       301 TCCAGTACATTGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGGAGTGGGTGGCCA 360

Qy       376 TCGAGAGCGACTCTGTCCAGCCTGTGCCTCGCTTCAGACAAGAGCTCTTCAGAATGATGG 435
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       361 TCGAGAGCGACTCTGTCCAGCCTGTGCCTCGCTTCAGACAAGAGCTCTTCAGAATGATGG 420

Qy       436 CCGTGGCTGCGGACACGCTGCAGCGCCTGGGGGCCCGTGTGGCCTCGGTGGACATGGGTC 495
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       421 CCGTGGCTGCGGACACGCTGCAGCGCCTGGGGGCCCGTGTGGCCTCGGTGGACATGGGTC 480

Qy       496 CTCAGCAGCTGCCCGATGGTCAGAGTCTTCCAATACCTCCCGTCATCCTGGCCGAACTGG 555
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       481 CTCAGCAGCTGCCCGATGGTCAGAGTCTTCCAATACCTCCCGTCATCCTGGCCGAACTGG 540

Qy       556 GGAGCGATCCCACGAAAGGCACCGTGTGCTTCTACGGCCACTTGGACGTGCAGCCTGCTG 615
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       541 GGAGCGATCCCACGAAAGGCACCGTGTGCTTCTACGGCCACTTGGACGTGCAGCCTGCTG 600

Qy       616 ACCGGGGCGATGGGTGGCTCACGGACCCCTATGTGCTGACGGAGGTAGACGGGAAACTTT 675
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       601 ACCGGGGCGATGGGTGGCTCACGGACCCCTATGTGCTGACGGAGGTAGACGGGAAACTTT 660

Qy       676 ATGGACGAGGAGCGACCGACAACAAAGGCCCTGTCTTGGCTTGGATCAATGCTGTGAGCG 735
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       661 ATGGACGAGGAGCGACCGACAACAAAGGCCCTGTCTTGGCTTGGATCAATGCTGTGAGCG 720

Qy       736 CCTTCAGAGCCCTGGAGCAAGATCTTCCTGTGAATATCAAATTCATCATTGAGGGGATGG 795
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       721 CCTTCAGAGCCCTGGAGCAAGATCTTCCTGTGAATATCAAATTCATCATTGAGGGGATGG 780

Qy       796 AAGAGGCTGGCTCTGTTGCCCTGGAGGAACTTGTGGAAAAAGAAAAGGACCGATTCTTCT 855
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       781 AAGAGGCTGGCTCTGTTGCCCTGGAGGAACTTGTGGAAAAAGAAAAGGACCGATTCTTCT 840

Qy       856 CTGGTGTGGACTACATTGTAATTTCAGATAACCTGTGGATCAGCCAAAGGAAGCCAGCAA 915
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       841 CTGGTGTGGACTACATTGTAATTTCAGATAACCTGTGGATCAGCCAAAGGAAGCCAGCAA 900

Qy       916 TCACTTATGGAACCCGGGGGAACAGCTACTTCATGGTGGAGGTGAAATGCAGAGACCAGG 975
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       901 TCACTTATGGAACCCGGGGGAACAGCTACTTCATGGTGGAGGTGAAATGCAGAGACCAGG 960

Qy       976 ATTTTCACTCAGGAACCTTTGGTGGCATCCTTCATGAACCAATGGCTGATCTGGTTGCTC 1035
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       961 ATTTTCACTCAGGAACCTTTGGTGGCATCCTTCATGAACCAATGGCTGATCTGGTTGCTC 1020

Qy      1036 TTCTCGGTAGCCTGGTAGACTCGTCTGGTCATATCCTGGTCCCTGGAATCTATGATGAAG 1095
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1021 TTCTCGGTAGCCTGGTAGACTCGTCTGGTCATATCCTGGTCCCTGGAATCTATGATGAAG 1080

Qy      1096 TGGTTCCTCTTACAGAAGAGGAAATAAATACATACAAAGCCATCCATCTAGACCTAGAAG 1155
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1081 TGGTTCCTCTTACAGAAGAGGAAATAAATACATACAAAGCCATCCATCTAGACCTAGAAG 1140

Qy      1156 AATACCGGAATAGCAGCCGGGTTGAGAAATTTCTGTTCGATACTAAGGAGGAGATTCTAA 1215
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1141 AATACCGGAATAGCAGCCGGGTTGAGAAATTTCTGTTCGATACTAAGGAGGAGATTCTAA 1200

Qy      1216 TGCACCTCTGGAGGTACCCATCTCTTTCTATTCATGGGATCGAGGGCGCGTTTGATGAGC 1275
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1201 TGCACCTCTGGAGGTACCCATCTCTTTCTATTCATGGGATCGAGGGCGCGTTTGATGAGC 1260

Qy      1276 CTGGAACTAAAACAGTCATACCTGGCCGAGTTATAGGAAAATTTTCAATCCGTCTAGTCC 1335
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1261 CTGGAACTAAAACAGTCATACCTGGCCGAGTTATAGGAAAATTTTCAATCCGTCTAGTCC 1320
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```
Qy      1336 CTCACATGAATGTGTCTGCGGTGGAAAAACAGGTGACACGACATCTTGAAGATGTGTTCT 1395
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1321 CTCACATGAATGTGTCTGCGGTGGAAAAACAGGTGACACGACATCTTGAAGATGTGTTCT 1380

Qy      1396 CCAAAAGAAATAGTTCCAACAAGATGGTTGTTTCCATGACTCTAGGACTACACCCGTGGA 1455
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1381 CCAAAAGAAATAGTTCCAACAAGATGGTTGTTTCCATGACTCTAGGACTACACCCGTGGA 1440

Qy      1456 TTGCAAATATTGATGACACCCAGTATCTCGCAGCAAAAAGAGCGATCAGAACAGTGTTTG 1515
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1441 TTGCAAATATTGATGACACCCAGTATCTCGCAGCAAAAAGAGCGATCAGAACAGTGTTTG 1500

Qy      1516 GAACAGAACCAGATATGATCCGGGATGGATCCACCATTCCAATTGCCAAAATGTTCCAGG 1575
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1501 GAACAGAACCAGATATGATCCGGGATGGATCCACCATTCCAATTGCCAAAATGTTCCAGG 1560

Qy      1576 AGATCGTCCACAAGAGCGTGGTGCTAATTCCGCTGGGAGCTGTTGATGATGGAGAACATT 1635
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1561 AGATCGTCCACAAGAGCGTGGTGCTAATTCCGCTGGGAGCTGTTGATGATGGAGAACATT 1620

Qy      1636 CGCAGAATGAGAAAATCAACAGGTGGAACTACATAGAGGGAACCAAATTATTTGCTGCCT 1695
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1621 CGCAGAATGAGAAAATCAACAGGTGGAACTACATAGAGGGAACCAAATTATTTGCTGCCT 1680

Qy      1696 TTTTCTTAGAGATGGCCCAGCTCCATTAATCACAAGAACCTTCTAGTCTGATCTGATCCA 1755
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1681 TTTTCTTAGAGATGGCCCAGCTCCATTAATCACAAGAACCTTCTAGTCTGATCTGATCCA 1740

Qy      1756 CTGACAGATTCACCTCCCCCACATCCCTAGACAGGGATGGAATGTAAATATCCAGAGAAT 1815
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1741 CTGACAGATTCACCTCCCCCACATCCCTAGACAGGGATGGAATGTAAATATCCAGAGAAT 1800

Qy      1816 TTGGGTCTAGTATAGTACATTTTCCCTTCCATTTAAAATGTCTTGGGATATCTGGATCAG 1875
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1801 TTGGGTCTAGTATAGTACATTTTCCCTTCCATTTAAAATGTCTTGGGATATCTGGATCAG 1860

Qy      1876 TAATAAAATATTTCAAAGGCACAGATGTTGGAAATGGTTTAAGGTCCCCCACTGCACACC 1935
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1861 TAATAAAATATTTCAAAGGCACAGATGTTGGAAATGGTTTAAGGTCCCCCACTGCACACC 1920

Qy      1936 TTCCTCAAGTCATAGCTGCTTGCAGCAACTTGATTTCCCCAAGTCCTGTGCAATAGCCCC 1995
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1921 TTCCTCAAGTCATAGCTGCTTGCAGCAACTTGATTTCCCCAAGTCCTGTGCAATAGCCCC 1980

Qy      1996 AGGATTGGATTCCTTCCAACCTTTTAGCATATCTCCAACCTTGCAATTTGATTGGCATAA 2055
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1981 AGGATTGGATTCCTTCCAACCTTTTAGCATATCTCCAACCTTGCAATTTGATTGGCATAA 2040

Qy      2056 TCACTCCGGTTTGCTTTCTAGGTCCTCAAGTGCTCGTGACACATAATCATTCCATCCAAT 2115
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2041 TCACTCCGGTTTGCTTTCTAGGTCCTCAAGTGCTCGTGACACATAATCATTCCATCCAAT 2100

Qy      2116 GATCGCCTTTGCTTTACCACTCTTTCCTTTTATCTTATTAATAAAAATGTTG 2167
            ||||||||||||||||||:||||||||||||||||||||||||||||||||||
Db      2101 GATCGCCTTTGCTTTACCAYTCTTTCCTTTTATCTTATTAATAAAAATGTTG 2152
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RESULT 2
AAX10638/c
ID   AAX10638 standard; DNA; 127 BP.
XX
AC   AAX10638;
XX
DT   30-MAR-1999  (first entry)
XX
DE   Human biallelic polymorphic DNA fragment WI-15225.
XX
KW   Polymorphism; biallelic; human; forensic; paternity testing; disease;
KW   detection; phenotypic typing; characteristic; infection; hereditary;
KW   autoimmune disease; cancer; inflammation; drug; therapy; medicament;
KW   treatment; marker; ss.
XX
OS   Homo sapiens.
```

```
XX
PN   WO9820165-A2.
XX
PD   14-MAY-1998.
XX
PF   05-NOV-1997;   97WO-US020313.
XX
PR   06-NOV-1996;   96US-0030455P.
XX
PA   (WHED ) WHITEHEAD INST BIOMEDICAL RES.
XX
PI   Lander ES, Wang D, Hudson T;
XX
DR   WPI; 1998-286974/25.
XX
PT   New isolated nucleic acid segments from the human genome - used for
PT   determining polymorphic forms for use in e.g. forensics, paternity
PT   testing or phenotypic typing for disease.
XX
PS   Claim 1; Page 67; 310pp; English.
XX
CC   AAX10269-X12937 are human DNA fragments which contain biallelic
CC   polymorphic markers which have been isolated using the primers
CC   represented in AAX09121-X10268. The base occupying the polymorphic site
CC   is indicated by the appropriate IUPAC-IUB ambiguity code. These fragments
CC   can be used in methods for determining polymorphic forms in an individual
CC   for use in e.g. forensics, paternity testing or for phenotypic typing for
CC   diseases such as agammaglobulinemia, diabetes insipidus, Lesch-Nyhan
CC   syndrome, muscular dystrophy, Wiskott-Aldrich syndrome, Fabry's disease,
CC   familial hypercholesterolemia, polycystic kidney disease, hereditary
CC   spherocytosis, von Willebrand's disease, tuberous sclerosis, hereditary
CC   haemorrhagic telangiectasia, familial colonic polyposis, Ehlers-Danlos
CC   syndrome, osteogenesis imperfecta, acute intermittent porphyria,
CC   autoimmune diseases, inflammation, cancer, diseases of the nervous
CC   system, infection by pathogenic microorganisms, and characteristics such
CC   as longevity, appearance (e.g. baldness, obesity), strength, speed,
CC   endurance, fertility, and susceptibility or receptivity to particular
CC   drugs or therapeutic treatments. The isolated polymorphic nucleic acid
CC   segments can also be used to produce medicaments for the treatment or
CC   prophylaxis of such diseases
XX
SQ   Sequence 127 BP; 47 A; 16 C; 36 G; 27 T; 0 U; 1 Other;

  Query Match             5.6%;  Score 126.6;  DB 1;  Length 127;
  Best Local Similarity   99.2%;  Pred. No. 9.2;
  Matches  126;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       2017 TTTTAGCATATCTCCAACCTTGCAATTTGATTGGCATAATCACTCCGGTTTGCTTTCTAG 2076
             ||||||||||||||||||||||||||||||||||||||||||||||:||||||||||||||
Db        127 TTTTAGCATATCTCCAACCTTGCAATTTGATTGGCATAATCACTCCRGTTTGCTTTCTAG 68

Qy       2077 GTCCTCAAGTGCTCGTGACACATAATCATTCCATCCAATGATCGCCTTTGCTTTACCACT 2136
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         67 GTCCTCAAGTGCTCGTGACACATAATCATTCCATCCAATGATCGCCTTTGCTTTACCACT 8

Qy       2137 CTTTCCT 2143
             |||||||
Db           7 CTTTCCT 1


RESULT 3
AAV81394
ID   AAV81394 standard; DNA; 1733 BP.
XX
AC   AAV81394;
XX
DT   16-MAR-1999  (first entry)
XX
DE   Human tumour antigen zsig15 coding sequence.
XX
KW   Secretion; differentiation marker; tumour; epithelial cell; colon; blood;
KW   breast; prostate; growth; development; antagonist; receptor; bone marrow;
KW   cancer; metastasis; ss.
XX
OS   Homo sapiens.
XX
FH   Key             Location/Qualifiers
FT   CDS             34. .1347
FT                   /*tag=  a
FT                   /product= "zsig15"
XX
PN   WO9850552-A1.
XX
PD   12-NOV-1998.
XX
PF   06-MAY-1998;   98WO-US009584.
XX
PR   06-MAY-1997;   97US-0045703P.
XX
PA   (ZYMO ) ZYMOGENETICS INC.
XX
PI   Sheppard PO, Grossmann A;
XX
DR   WPI; 1999-034723/03.
DR   P-PSDB; AAW67722.
XX
PT   New nucleic acid encoding secreted polypeptide zsig15 - used as a marker
PT   for tumour cells, useful for diagnosis and treatment of cancers,
PT   inflammation and hyperplasia.
XX
PS   Claim 4; Page 81-84; 100pp; English.
XX
CC   This sequence encodes a secreted polypeptide, designated zsig15, which is
CC   a marker for differentiation in normal and tumour cells (particularly
CC   epithelial cells and derived tumours of colon, breast and prostate). The
CC   zsig15 protein is useful for the promotion of growth and development of
CC   epithelial cells; to identify specific (ant)agonists, also where
CC   conjugated to a toxin, to deliver these to cells expressing the cognate
CC   receptor (e.g. to kill cells of blood, colon, breast and bone marrow
CC   cancers), and to identify/isolate receptors involved in cancer
CC   metastases. The sequence was isolated from a colon cancer library after
CC   screening an EST (expressed sequence tag) database for sequences
CC   containing putative secretion signal sequences
XX
SQ   Sequence 1733 BP; 448 A; 504 C; 442 G; 339 T; 0 U; 0 Other;

  Query Match             2.8%;  Score 62.4;  DB 1;  Length 1733;
  Best Local Similarity   96.9%;  Pred. No. 1.3;
  Matches   63;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy       2178 CTGNCTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2237
             ||  ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1599 CTTTCTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1658

Qy       2238 AAAAA 2242
             |||||
Db       1659 AAAAA 1663


RESULT 4
AAZ65270/c
ID   AAZ65270 standard; DNA; 2152 BP.
XX
AC   AAZ65270;
XX
DT   23-MAR-2000  (first entry)
XX
DE   Human secreted protein gene 21.
XX
KW   Human; secreted protein; cancer; tumour; developmental abnormality;
KW   foetal deficiency; blood disorder; immune system disorder; inflammation;
KW   autoimmune disease; allergy; Alzheimer's disease; cognitive disorder;
KW   schizophrenia; arthritis; asthma; psoriasis; sepsis; skin disorder;
KW   atherosclerosis; diabetes; cardiovascular disorder; kidney disorder;
KW   digestive disorder; endocrine disorder; infection; AIDS; leukaemia;
KW   therapy; chromosome 18q22-23; ds.
```